

In the Claims:

Please cancel withdrawn claims 25-26. Please cancel claims 27 and 30. Please amend claims 1, 11, 29, and 32. The claims are as follows.

1. (Currently amended) A data communication method that compensates for disadvantageous characteristics of a first protocol that is used to communicate data between a client application and a server application, wherein the client application and the server application employ a second protocol that is mapped onto the first protocol, said method comprising the acts of:

intercepting, by a client interceptor acting on behalf of a server application, a second-protocol data communication request from a client application;

mapping, by the client interceptor, the second-protocol data communication request onto the first protocol;

sending the communication request to a server interceptor using the first protocol;

compensating a disadvantageous characteristic of the first protocol, said compensating comprising ascertaining that a condition exists and eliminating the condition in response to said ascertaining, said condition being a connection condition or a transmission capacity condition;

mapping, by the server interceptor, the communication request back onto the second protocol to recreate substantially the second-protocol data communication request; and

delivering the second-protocol data communication request to the server application; and

after said intercepting the communication request and before said sending the communication request to the server; adding, by the client interceptor, a client connection identifier to the communication request.

2. (Previously presented) The method of claim 1, wherein the ascertaining comprises determining loss of a connection, and wherein the eliminating comprises re-establishing the connection.

3. (Previously presented) The method of claim 1, wherein the ascertaining comprises detecting that a connection is idle, and wherein the eliminating comprises dropping the connection and re-establishing the connection when a new communication request is intercepted.

4. (Previously presented) The method of claim 1, wherein the ascertaining comprises determining that transmission capacity is insufficient to process the data communication request within a predetermined interval of time, and wherein the eliminating comprises establishing a parallel connection to increase transmission capacity.

5. (Original) The method of claim 1, wherein the second protocol is connection oriented, and wherein the client interceptor and the server interceptor intercept a plurality of connections between the client application and the client interceptor using the second protocol, and between the server interceptor and the server application using the second protocol.

6. (Original) The method of claim 5, wherein the plurality of connections using the second protocol are multiplexed onto a single connection of the first protocol.

7. (Original) The method of claim 1, wherein the first protocol is a wireless communication protocol.

8. (Previously presented) The method of claim 1, further comprising the act of opening, by the client interceptor, a connection to the server interceptor using the first protocol following the act of intercepting the second-protocol data communication request.

9. (Previously presented) The method of claim 1, further comprising the acts of:  
opening, by the client interceptor, a connection to the server interceptor using the first protocol following the act of intercepting the second-protocol data communication request; and  
receiving, by the client interceptor, an identification of the server application; and  
forwarding the identification to an address-resolution server for first-protocol address resolution.

10. (Cancelled)

11. (Currently amended) A data communication system that compensates for disadvantageous characteristics of a first protocol that is used to communicate data between a client application and a server application, wherein the client application and the server application employ a second protocol that is mapped onto the first protocol, said system comprising:

a client interceptor acting on behalf of the server application, said client interceptor adapted to intercept a second-protocol data communication request from the client application, said client interceptor further adapted to map the second-protocol data communication request onto the first protocol;

a server interceptor adapted to map the communication request back onto the second

protocol to recreate substantially the second-protocol data communication request; means for sending the second-protocol data communication request to the server interceptor using the first protocol; means for compensating a disadvantageous characteristic of the first protocol, said compensating comprising ascertaining that a condition exists and eliminating the condition in response to said ascertaining, said condition being a connection condition or a transmission capacity condition; and means for delivering the second-protocol data communication request to the server application; and means for adding, by the client interceptor, a client connection identifier to the communication request.

12. (Previously presented) The system of claim 11, wherein the ascertaining comprises determining loss of a connection, and wherein the eliminating comprises re-establishing the connection.

13. (Previously presented) The system of claim 11, wherein the ascertaining comprises detecting that a connection is idle, and wherein the eliminating comprises dropping the connection, and re-establishing the connection when a new communication request is intercepted.

14. (Previously presented) The system of claim 11, wherein the ascertaining comprises the acts of determining that transmission capacity is insufficient to process the data communication request

within a predetermined interval of time, and wherein the eliminating comprises establishing a parallel connection to increase transmission capacity.

15. (Previously presented) The system of claim 11, wherein the second protocol is connection oriented, and wherein the client interceptor and the server interceptor are adapted to intercept a plurality of connections between the client application and the client interceptor using the second protocol, and between the server interceptor and the server application using the second protocol.

16. (Previously presented) The system of claim 15, wherein the plurality of connections using the second protocol are multiplexed onto a single connection of the first protocol.

17. (Previously presented) The system of claim 11, wherein the first protocol is a wireless communication protocol.

18. (Previously presented) The system of claim 11, further comprising:  
means for opening, by the client interceptor, a connection to the server interceptor using the first protocol following intercepting the second-protocol data communication request.

19. (Previously presented) The system of claim 18, further comprising:  
means for receiving, by the client interceptor, an identification of the server application;

and

means for forwarding the identification to an address-resolution server for first-protocol

address resolution.

20-24. (Canceled)

25-26. (Canceled)

27. (Canceled)

28. (Previously presented) The method of claim 1, wherein said compensating further comprises closing idle connections to reduce costs.

29. (Currently amended) The method of claim 1, A data communication method that compensates for disadvantageous characteristics of a first protocol that is used to communicate data between a client application and a server application, wherein the client application and the server application employ a second protocol that is mapped onto the first protocol, said method comprising the acts of:

intercepting, by a client interceptor acting on behalf of a server application, a second-protocol data communication request from a client application;  
mapping, by the client interceptor, the second-protocol data communication request onto the first protocol;

sending the communication request to a server interceptor using the first protocol;  
compensating a disadvantageous characteristic of the first protocol, said compensating

comprising ascertaining that a condition exists and eliminating the condition in response to said ascertaining, said condition being a connection condition or a transmission capacity condition;  
mapping, by the server interceptor, the communication request back onto the second protocol to recreate substantially the second-protocol data communication request; and  
delivering the second-protocol data communication request to the server application,  
wherein the client application resides on a computing device, wherein the computing device comprises a communication platform client that includes a session layer, a reliability layer, and a network layer, and wherein in response to the network layer attempting to send data with no physical connection in place for sending the data said method comprises: repeatedly attempting to set up a new physical connection until either the new physical connection is set up or until a logical connection is closed by the session layer in response to the reliability layer having detected a session timeout.

30. (Canceled)

31. (Previously presented) The system of claim 11, wherein said means for compensating further comprises means for closing idle connections to reduce costs.

32. (Currently amended) The system of claim 11; A data communication system that compensates for disadvantageous characteristics of a first protocol that is used to communicate data between a client application and a server application, wherein the client application and the server application employ a second protocol that is mapped onto the first protocol, said system

comprising:

a client interceptor acting on behalf of the server application, said client interceptor adapted to intercept a second-protocol data communication request from the client application, said client interceptor further adapted to map the second-protocol data communication request onto the first protocol;

a server interceptor adapted to map the communication request back onto the second protocol to recreate substantially the second-protocol data communication request;

means for sending the second-protocol data communication request to the server interceptor using the first protocol;

means for compensating a disadvantageous characteristic of the first protocol, said compensating comprising ascertaining that a condition exists and eliminating the condition in response to said ascertaining, said condition being a connection condition or a transmission capacity condition; and

means for delivering the second-protocol data communication request to the server application,

wherein the client application resides on a computing device, wherein the computing device comprises a communication platform client that includes a session layer, a reliability layer, and a network layer, wherein in response to the network layer attempting to send data with no physical connection in place for sending the data said system comprises: means for repeatedly attempting to set up a new physical connection until either the new physical connection is set up or until a logical connection is closed by the session layer in response to the reliability layer having detected a session timeout.